

SUPPLEMENTAL AMENDMENT

Serial Number: 09/51,614

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Title: VIA-IN-PAD WITH OFF-CENTER GEOMETRY

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bridged during the solder reflow operation.

40. The electronic assembly recited in claim 39, wherein the thermally expansive substance comprises a volatile organic compound.

41. The electronic assembly recited in claim 39, wherein the thermally expansive substance comprises a volatile liquid that forms a portion of a material from the group consisting of a solder mask, a solder flux, a solder paste, a solvent, and a via cap.

42. The electronic assembly recited in claim 37, wherein the lands and vias are circular.

43. A substrate comprising a plurality of lands and a centerline separating the plurality of lands into two substantially equal portions, each land having a geometric center and an edge, wherein each land has a via offset therein, wherein each via has a geometric center located in a region between the geometric center and the edge of its associated land, wherein the lands comprise a first group having vias offset in a first direction and a second group having vias offset in a second direction, wherein the geometric centers of vias of the first group of lands are offset in a first direction and the geometric centers of vias of the second group of lands are offset in a second direction, and wherein the first and second groups are on opposite sides of the centerline.

44. The substrate recited in claim 43, wherein the lands are circular.

45. The substrate recited in claim 43, wherein the vias are circular.

REMARKS

New claims 37-45 are submitted for prosecution in addition to claims 18-25 and 27-36 currently pending. New claims 37-45 are submitted to provide coverage to which Applicants are entitled. New claims 37-45 are asserted to fully distinguish over the art of record, including the art submitted that is being filed today, August 5, 2002 via First Class mail in the Supplemental Information Disclosure Statement. No new matter is submitted in new claims 37-45

New independent claim 37 is based in part upon original claim 21, as amended. In addition,